(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/075157 A1

(51) International Patent Classification⁷: B23K 11/24

B25J 9/16,

(21) International Application Number:

PCT/SE2005/000176

(22) International Filing Date: 7 February 2005 (07.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0400320-8

6 February 2004 (06.02.2004) S

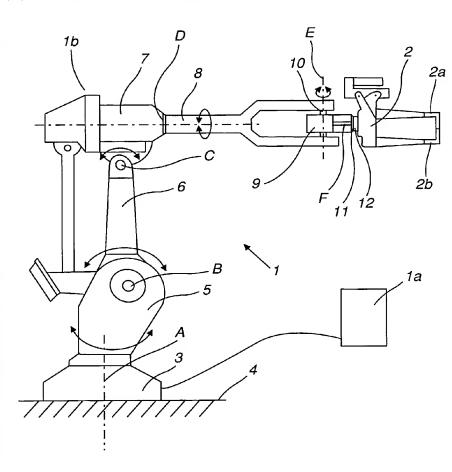
- (71) Applicant (for all designated States except US): ABB AB [SE/SE]; Kopparbergsvägen 2, S-721 83 VÄSTERÅS (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOCK, Sönke

[DE/DE]; Im Schöffenstuhl 22, 64319 Pfungstadt (DE). LUTHARDT, Colin [DE/SE]; Ålgatan 5, S-723 49 VÄSTERÅS (SE). MÜLLER, Christian H. [DE/DE]; Bordhofstrasse 2, DE-68526 LADENBURG (DE). OLOFSSON, Åke [SE/SE]; Rodergatan 6, S-723 48 VÄSTERÅS (SE).

- (74) Agent: ABB AB; Legal & Compliance/Intellectual Property, Forskargränd 8, S-721 78 VÄSTERÅS (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: METHOD IN INFUSTRIAL ROBOT SYSTEM



(57) Abstract: The invention comprises a method of an industrial robot (), comprising a control unit () and a manipulator () including a tool () comprising a defined TCP and a device for determining a distance error (d*) between an inaccurately programmed position (p1p) for a spot (1) on a surface () of a work piece () and a corresponding actual position (p1tu).

WO 2005/075157 A1



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report